

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P509173

Luminaire Tested: **VERD-CA2-120-740-U-T2**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509173
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-120-740-U-T2
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1120mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17050 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

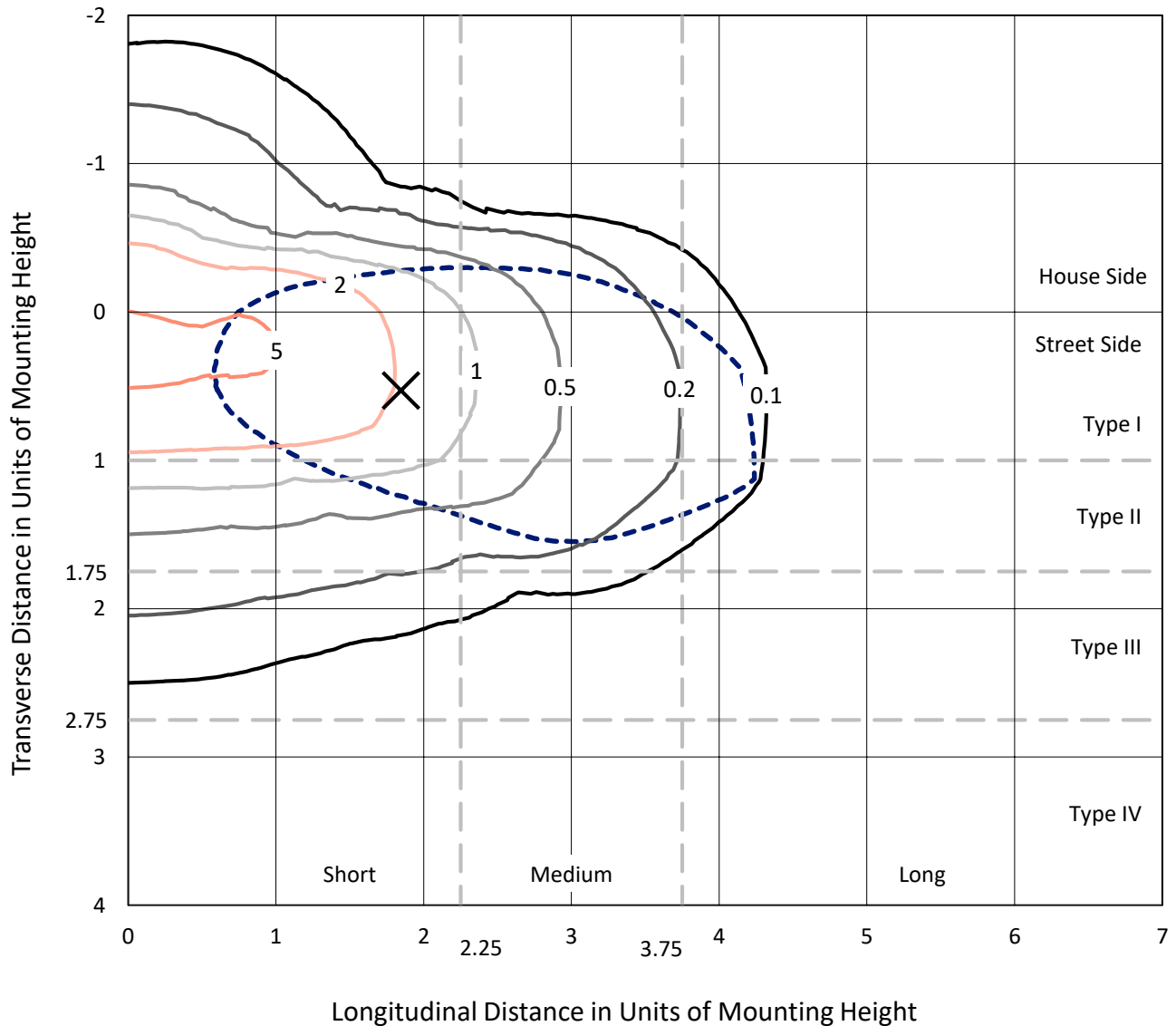
Input Watts (W): 122.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

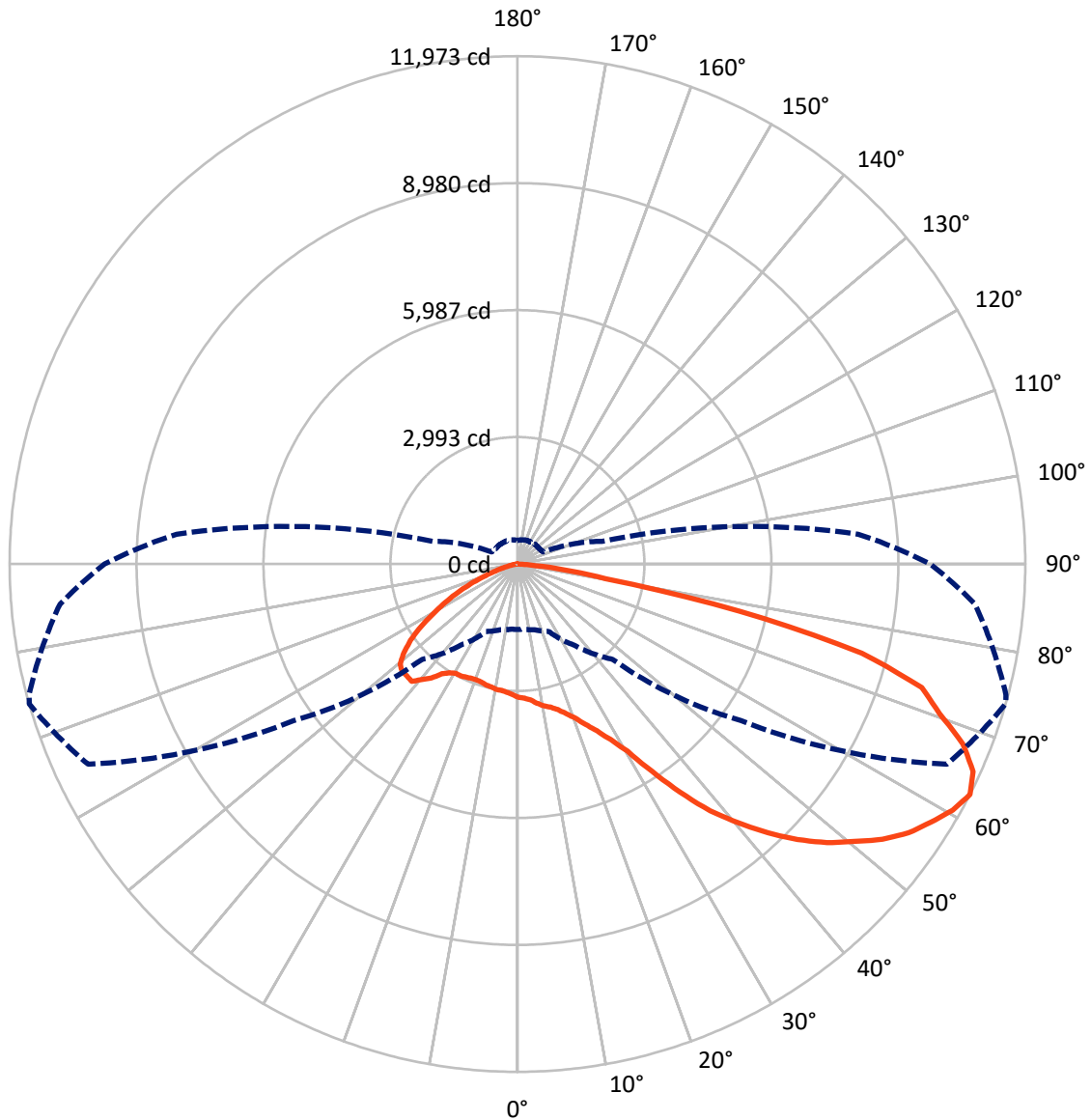
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4402.4	0.0	4402.4
	% Fixture	25.8	0.0	25.8
Street Side	Lumens	12647.6	0.0	12647.6
	% Fixture	74.2	0.0	74.2
Total	Lumens	17050.0	0.0	17050.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.1	1.8
10°-20°	921.1	5.4
20°-30°	1553.1	9.1
30°-40°	2269.2	13.3
40°-50°	3021.4	17.7
50°-60°	3477.1	20.4
60°-70°	3360.1	19.7
70°-80°	1934.3	11.3
80°-90°	211.6	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	17050.0	100.0
0°-180°	17050.0	100.0

Coefficient of Utilization



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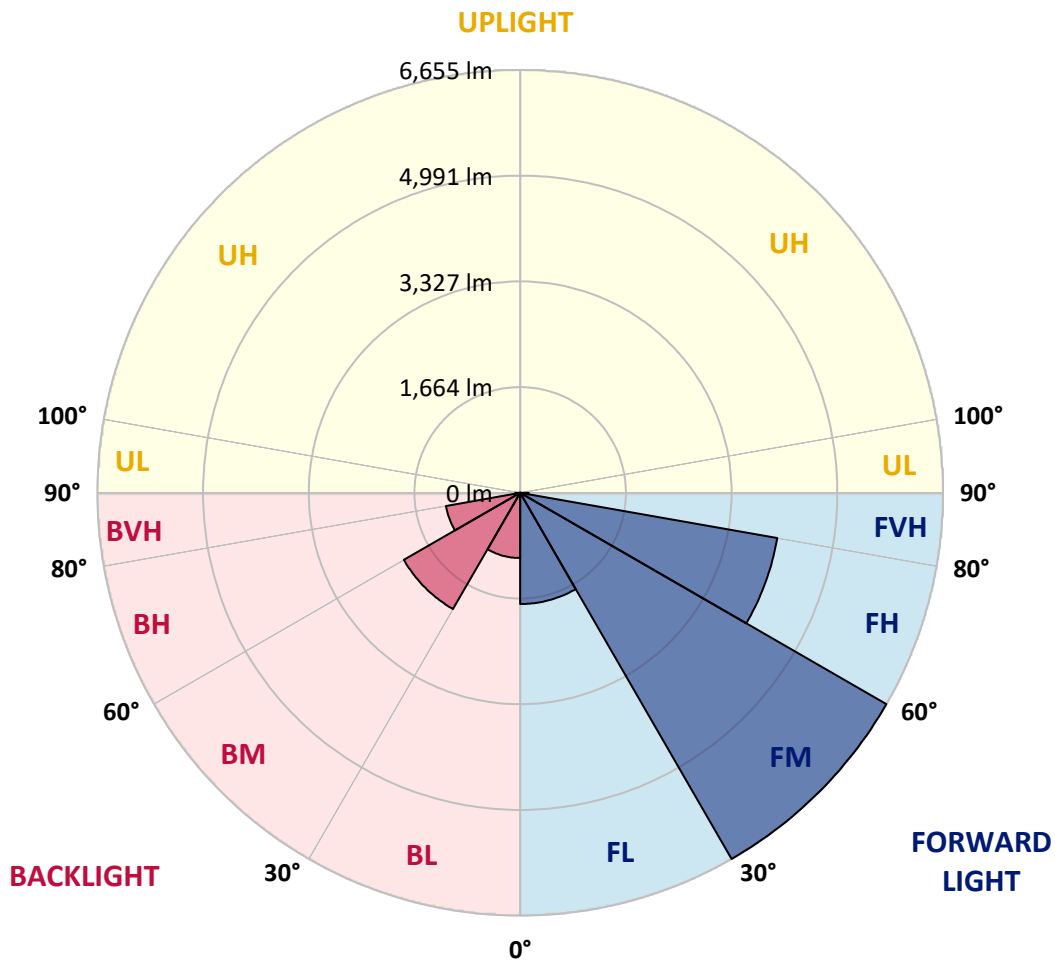
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1749.9	10.3			
FM (30°-60°)	6654.6	39.0			
FH (60°-80°)	4109.2	24.1			G2/5000
FVH (80°-90°)	133.8	0.8			G2/225
BL (0°-30°)	1026.4	6.0	B3/2500		
BM (30°-60°)	2113.1	12.4	B2/2500		
BH (60°-80°)	1185.2	7.0	B3/2500		G3/2500
BVH (80°-90°)	77.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3143.9	3143.9	3143.9	3143.9	3143.9	3143.9	3143.9	3143.9	3143.9	3143.9	3143.9
2.5°	3365.2	3341.0	3326.1	3309.4	3288.9	3281.5	3236.9	3197.8	3166.2	3168.1	3147.6
5°	3487.9	3461.9	3428.4	3422.8	3396.8	3391.2	3348.4	3287.1	3218.3	3209.0	3147.6
7.5°	3625.5	3610.6	3590.1	3564.1	3521.4	3493.5	3432.1	3383.8	3313.1	3303.8	3183.0
10°	3792.8	3781.6	3766.8	3766.8	3711.0	3651.5	3577.1	3456.3	3400.5	3391.2	3244.3
12.5°	3989.9	3956.4	3908.1	3880.2	3828.1	3790.9	3711.0	3582.7	3461.9	3458.1	3302.0
15°	4118.2	4090.3	4058.7	4047.5	3980.6	3919.2	3833.7	3731.4	3562.3	3549.2	3372.6
17.5°	4261.3	4235.3	4198.1	4177.7	4134.9	4064.2	3988.0	3854.2	3703.6	3690.5	3452.6
20°	4341.3	4313.4	4302.2	4305.9	4291.1	4255.7	4164.6	4043.8	3870.9	3854.2	3562.3
22.5°	4430.5	4411.9	4415.6	4443.5	4471.4	4458.4	4387.7	4253.9	4105.1	4079.1	3738.9
25°	4432.4	4417.5	4467.7	4575.5	4635.0	4664.8	4627.6	4517.9	4359.9	4335.7	3963.8
27.5°	4464.0	4441.7	4495.6	4609.0	4789.3	4850.7	4863.7	4822.8	4687.1	4657.3	4233.4
30°	4382.2	4367.3	4449.1	4646.2	4858.1	5062.6	5137.0	5200.2	5124.0	5125.9	4649.9
32.5°	4240.9	4214.8	4339.4	4581.1	4975.3	5254.1	5451.2	5705.9	5823.1	5811.9	5375.0
35°	3971.3	3986.2	4153.5	4523.5	4979.0	5449.4	5836.1	6291.6	6609.5	6602.1	6126.1
37.5°	3779.8	3772.3	3969.4	4361.7	4977.1	5622.3	6209.8	6968.3	7379.2	7368.1	6771.3
40°	3549.2	3551.1	3748.2	4160.9	4889.7	5730.1	6596.5	7609.8	8028.1	8011.4	7388.5
42.5°	3302.0	3309.4	3493.5	3915.5	4768.9	5811.9	6942.3	8258.6	8663.9	8678.8	7883.1
45°	3080.7	3084.4	3266.6	3653.4	4555.1	5821.2	7252.8	8872.2	9266.3	9231.0	8401.8
47.5°	2755.4	2759.1	3028.7	3404.2	4272.5	5745.0	7509.4	9456.0	9816.6	9742.3	8840.6
50°	2158.5	2166.0	2485.8	3145.8	3928.5	5570.2	7712.0	10004.4	10283.3	10251.7	9290.5
52.5°	1993.1	1987.5	2121.4	2837.2	3619.9	5254.1	7840.3	10497.1	10779.7	10776.0	9662.3
55°	1909.4	1903.8	1948.5	2299.8	3316.8	4785.6	7836.6	10880.1	11190.6	11114.4	10002.6
57.5°	1760.7	1749.5	1864.8	2037.7	2978.5	4201.8	7650.7	11224.1	11488.1	11465.8	10309.3
60°	1654.7	1645.4	1723.5	1883.4	2617.8	3608.7	7172.8	11402.6	11787.4	11796.7	10567.8
62.5°	1545.0	1539.4	1606.4	1755.1	2335.2	3175.5	6436.6	11168.3	11973.3	11923.1	10826.2
65°	1420.4	1416.7	1479.9	1600.8	2054.4	2846.5	5715.2	10750.0	11806.0	11863.6	10859.7
67.5°	1271.7	1269.8	1331.2	1414.9	1747.7	2515.5	4610.9	10257.3	11328.2	11265.0	10430.2
70°	1089.5	1082.1	1158.3	1236.4	1463.2	2140.0	3588.3	9381.6	10551.0	10779.7	9575.0
72.5°	916.6	912.9	985.4	1043.0	1212.2	1747.7	2617.8	8113.6	9969.1	9640.0	8626.8
75°	717.7	699.1	775.3	829.2	955.6	1390.7	1784.8	5419.6	8390.6	8321.8	7247.2
77.5°	290.0	336.5	401.6	449.9	533.6	788.3	933.3	2571.3	5352.7	5588.8	5040.3
80°	111.6	119.0	286.3	323.5	358.8	453.6	358.8	1083.9	2112.1	2303.6	2919.0
82.5°	63.2	70.7	141.3	135.7	133.9	115.3	133.9	531.7	1102.5	1208.5	1409.3
85°	35.3	39.0	57.6	63.2	53.9	46.5	40.9	139.4	275.2	260.3	291.9
87.5°	5.6	7.4	9.3	9.3	5.6	5.6	5.6	7.4	7.4	7.4	9.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3143.9	3143.9	3143.9	3143.9	3143.9	3143.9	3143.9	3143.9	3143.9	3143.9	3143.9
2.5°	3127.2	3106.7	3086.3	3062.1	3032.4	3013.8	3006.3	3015.6	3041.7	3010.1	2984.0
5°	3116.0	3088.2	3041.7	2995.2	2958.0	2926.4	2883.6	2879.9	2887.4	2874.3	2840.9
7.5°	3140.2	3099.3	3004.5	2972.9	2894.8	2820.4	2796.3	2787.0	2764.7	2738.6	2707.0
10°	3188.6	3104.9	3008.2	2915.2	2842.7	2762.8	2669.8	2671.7	2662.4	2632.6	2602.9
12.5°	3212.7	3114.2	2972.9	2874.3	2762.8	2664.3	2573.2	2532.2	2549.0	2524.8	2493.2
15°	3257.3	3153.2	2959.9	2814.8	2662.4	2550.8	2482.1	2422.6	2385.4	2390.9	2372.4
17.5°	3341.0	3188.6	2926.4	2749.8	2584.3	2452.3	2320.3	2314.7	2258.9	2227.3	2199.4
20°	3428.4	3251.8	2922.7	2679.1	2457.9	2294.3	2188.3	2128.8	2095.3	2069.3	2048.9
22.5°	3541.8	3339.1	2935.7	2638.2	2344.5	2160.4	2024.7	1944.7	1890.8	1872.2	1857.4
25°	3701.7	3448.8	2971.0	2565.7	2225.5	2013.5	1829.5	1745.8	1684.4	1669.6	1658.4
27.5°	3921.1	3588.3	3006.3	2487.6	2086.0	1807.2	1611.9	1530.1	1461.3	1459.5	1439.0
30°	4266.9	3802.1	3019.4	2418.8	1937.3	1585.9	1390.7	1314.5	1262.4	1242.0	1256.8
32.5°	4912.0	4274.3	3101.2	2312.9	1749.5	1370.2	1204.8	1143.4	1085.8	1063.5	1078.3
35°	5609.2	4839.5	3238.8	2240.4	1543.1	1165.7	1052.3	979.8	909.2	898.0	892.4
37.5°	6120.5	5354.5	3499.0	2121.4	1347.9	1041.2	892.4	832.9	792.0	769.7	790.2
40°	6700.6	5782.2	3696.1	1994.9	1149.0	909.2	743.7	725.1	706.5	691.6	713.9
42.5°	7159.8	6222.8	3930.4	1827.6	989.1	771.6	661.9	676.8	686.0	678.6	680.5
45°	7581.9	6550.0	3945.3	1572.9	844.1	669.3	637.7	667.5	689.8	686.0	684.2
47.5°	7994.6	6940.4	3980.6	1303.3	740.0	643.3	639.6	661.9	691.6	697.2	697.2
50°	8420.4	7237.9	3926.7	1048.6	700.9	647.0	645.1	643.3	680.5	682.3	687.9
52.5°	8740.2	7479.6	3671.9	866.4	699.1	658.2	654.4	635.9	652.6	665.6	656.3
55°	9078.5	7780.8	3350.3	797.6	695.3	661.9	676.8	645.1	634.0	622.8	634.0
57.5°	9400.2	7990.9	2928.3	756.7	680.5	656.3	686.0	643.3	619.1	587.5	576.4
60°	9647.5	8039.2	2457.9	713.9	661.9	643.3	645.1	630.3	598.7	559.6	542.9
62.5°	9731.1	8067.1	2067.4	673.0	624.7	622.8	608.0	602.4	589.4	565.2	557.8
65°	9660.5	7751.1	1651.0	622.8	593.1	594.9	572.6	554.0	524.3	485.3	481.5
67.5°	9175.2	7195.2	1266.1	559.6	544.7	563.3	539.2	507.6	474.1	448.1	451.8
70°	8344.2	6537.0	888.7	472.2	489.0	522.4	513.1	472.2	435.1	412.7	416.5
72.5°	7420.1	5538.6	604.2	368.1	397.9	468.5	468.5	440.6	403.4	373.7	366.3
75°	5852.8	4350.6	390.4	243.6	262.1	383.0	414.6	371.8	330.9	312.3	304.9
77.5°	3973.1	2833.4	249.1	139.4	174.8	251.0	327.2	332.8	392.3	394.2	377.4
80°	2335.2	1621.2	152.5	81.8	87.4	145.0	262.1	329.1	416.5	293.8	269.6
82.5°	1162.0	691.6	68.8	50.2	52.1	72.5	141.3	377.4	321.6	184.1	176.6
85°	258.4	113.4	27.9	26.0	29.7	37.2	72.5	312.3	197.1	148.7	145.0
87.5°	9.3	7.4	7.4	7.4	5.6	5.6	14.9	102.3	78.1	65.1	61.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)